

General properties of liquid argon.

PROPERTY	VALUE
Atomic number	18
Atomic weight (u)	39.94
Atomic diameter (Å)	3.42
Radiation length (cm)	14.2
Absorption length (cm)	83.6
Molière radius (cm)	10.1
Critical energy (MeV)	30.5
<DEmip (1 cm) > (MeV)	2.1
W-value (1 MeV electrons) (eV/ion-pair)	23.3
Fano factor	0.107
Electron mobility at bp (m ² V ⁻¹ s ⁻¹)	0.048
Ion mobility at bp (x10 ⁵) (m ² V ⁻¹ s ⁻¹)	0.016
Oxygen trapping constant (x10 ¹⁴) (m ² V ⁻¹)	1.5
Dielectric constant	1.6
Heat capacity (C _p) (cal mol ⁻¹ K ⁻¹)	10.05
Thermal conductivity (x10 ³) (cal s ⁻¹ cm ⁻¹ K ⁻¹)	30
Triple point temperature (K)	83.78
Triple point pressure (atm)	0.679
Triple point density (g cm ⁻³)	1.14
Critical point temperature (K)	150.85
Normal boiling point (bp) (K)	87.27
Liquid density at bp (g cm ⁻³)	1.40
Heat of vaporization at bp (cal mol ⁻¹)	1557.5
Gas/liquid ratio	784.0
Temperature (K) :	Pressure (bars)
87.15	1.0
89.3	1.25
91.8	1.6
94.2	2.0
96.8	2.5